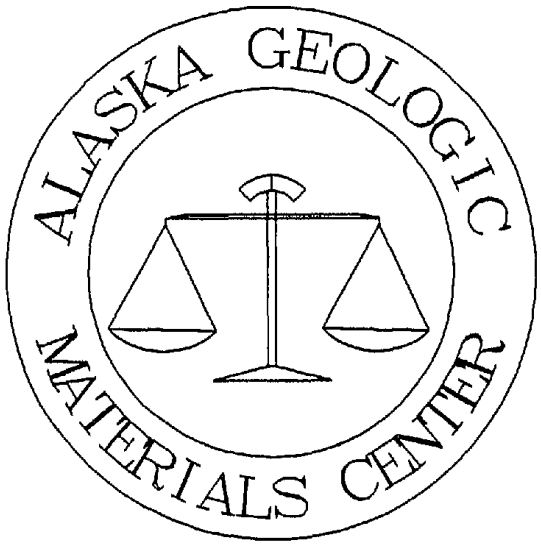
Source rock geochemical and visual kerogen data from cuttings of the following Copper River Basin oil and gas exploratory wells:

Amoco Production Co. Ahtna Inc. No. 1 (2,000' - 7,928'), and
Pan American Moose Creek Unit No. 1 (1,980' - 7,860').



Received 21 August 1995

Total of 5 pages in report

Alaska Geologic Materials Center Data Report No. 253

URCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

08/03/95

OCO AHTHA #1

[redacted]

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO) RO MEAN	STD. DEV.	RO MODE	RO RANGE LOW	RO RANGE HIGH	RO RANGE PTS	THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED PERCENT OIL PRONE ALG	OIL PRONE EXI	GAS PRONE VIT	GAS PRONE INER	GEOCHEM SAMPLE CODE
CUT	2000-2100	.91	.20	.67	.23	22	74	.53	.06	.59	.41	.65	44						
KER	2000-2100	57.19	8.16	45.43	.15	14	79												
CUT	2100-2200	.82	.17	.54	.24	21	66												
KER	2100-2200	55.59	5.92	39.34	.13	11	71												
CUT	2200-2300	.92	.19	.82	.19	21	89												
KER	2200-2300	56.33	8.22	59.18	.12	15	105												
CUT	2300-2400	.79	.11	.26	.30	14	33	.55	.06	.53	.42	.66	48						
KER	2300-2400	53.16	4.32	27.36	.14	8	51												
CUT	2400-2500	.88	.09	.42	.18	10	48												
KER	2400-2500	54.94	7.40	44.74	.14	13	81												
CUT	2500-2600	.89	.12	.48	.20	13	54												
KER	2500-2600	58.41	8.69	50.64	.15	15	87												
CUT	2600-2700	.94	.10	.48	.17	11	51	.53	.07	.49	.42	.67	43						
KER	2600-2700	55.67	9.74	50.50	.16	17	91												
CUT	2700-2800	.86	.15	.50	.23	17	58												
KER	2700-2800	54.51	4.69	33.20	.12	9	61												
CUT	2800-2900	.94	.12	.56	.18	13	60	.49	.07	.44	.38	.64	56						
KER	2800-2900	58.26	5.18	44.50	.10	9	76												
CUT	2900-3000	.87	.09	.52	.15	10	60												
KER	2900-3000	54.54	4.94	40.56	.11	9	74												
CUT	3000-3100	.91	.10	.54	.16	11	59	.52	.06	.57	.41	.62	37						
KER	3000-3100	58.61	4.43	41.92	.10	8	72												
CUT	3100-3200	1.16	.15	.58	.21	13	50												
KER	3100-3200	57.50	6.38	48.08	.12	11	84												
CUT	3200-3300	1.09	.09	.38	.19	8	35												
KER	3200-3300	50.96	5.14	17.48	.23	10	34												
CUT	3300-3400	.72	.11	.37	.23	15	51	.55	.08	.53	.39	.69	49						
KER	3300-3400	55.45	11.21	59.86	.16	20	108												
CUT	3400-3500	.77	.08	.30	.21	10	39												
KER	3400-3500	53.97	9.03	46.26	.16	17	86												
CUT	3500-3600	.94	.10	.42	.19	11	45												
KER	3500-3600	54.96	8.37	38.28	.18	15	70												
CUT	3600-3700	.89	.14	.48	.23	16	54	.53	.06	.45	.43	.63	33						
KER	3600-3700	57.08	11.13	58.00	.16	19	102												
CUT	3700-3800	.80	.09	.46	.16	11	57												
KER	3700-3800	14.69																	
CUT	3800-3900	.85	.20	.62	.24	24	73												
KER	3800-3900	55.33	13.43	50.28	.21	24	91												
CUT	3900-4000	.86	.23	.82	.22	27	95	.53	.07	.49	.42	.67	41						
KER	3900-4000	50.50	15.55	45.16	.26	31	89												

IRCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

ICO AHTHA #1

08/03/95

[redacted]

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO) RO MEAN	STD. DEV.	RO MODE	RO RANGE LOW	RO RANGE HIGH	PTS	THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED PERCENT OIL PRONE ALG	OIL PRONE EXI	GAS PRONE VIT	GAS PRONE INER	GEOCHEM SAMPLE CODE
CUT	4000-4100	.84	.21	.70	.23	25	83												
KER	4000-4100	53.98	12.98	42.46	.23	24	79												
CUT	4100-4200	.90	.18	.72	.20	20	80	.48	.07	.50	.38	.65	51						
KER	4100-4200	59.15	22.56	70.50	.24	38	119												
CUT	4200-4300	.83	.28	.60	.32	34	72												
KER	4200-4300	31.51	8.97	29.28	.23	28	93												
CUT	4300-4400	.88	.34	.88	.28	39	100	.56	.07	.59	.44	.68	45						
KER	4300-4400	55.00	16.87	53.14	.24	31	97												
CUT	4400-4500	.79	.30	.78	.28	38	99												
KER	4400-4500	28.01																	
CUT	4550-4600	.78	.25	.55	.31	32	71												
KER	4550-4600	54.01	6.25	25.84	.19	12	48												
CUT	4600-4700	.76	.15	.66	.19	20	87	.54	.07	.43	.41	.64	25						
KER	4600-4700	53.46	11.04	62.30	.15	21	117												
CUT	4700-4800	.87	.25	.58	.30	29	67												
KER	4700-4800	14.36																	
CUT	4800-4900	.74	.11	.40	.22	15	54												
KER	4800-4900	19.91																	
CUT	4900-5000	.62	.13	.50	.21	21	81	.50	.09	.48	.38	.68	52						
KER	4900-5000	24.00																	
CUT	5000-5100	1.03	.19	.98	.16	18	95	.54	.07	.53	.40	.69	54						
KER	5000-5100	54.42	10.49	57.50	.15	19	106												
CUT	5100-5200	.44						.59	.09	.67	.42	.72	48						
KER	5100-5200	49.84	15.00	77.42	.16	30	155												
CUT	5200-5300	.64	.17	1.00	.15	27	156												
KER	5200-5300	50.87	24.40	125.58	.16	48	247												
CUT	5300-5400	.72	.13	.66	.16	18	92												
KER	5300-5400	7.74																	
CUT	5400-5500	.60	.19	.68	.22	32	113												
KER	5400-5500	42.51	31.90	156.70	.17	75	369												
CUT	5500-5600	.52	.17	.42	.29	33	81	.53	.09	.43	.41	.68	36						
KER	5500-5600	43.85	22.96	142.68	.14	52	325												
CUT	5600-5700	.67	.14	.38	.27	21	57	.50	.09	.42	.38	.74	48						
KER	5600-5700	42.25	14.55	67.14	.18	34	159												
CUT	5700-5800	.70	.15	.60	.20	21	86	.51	.09	.41	.40	.67	49						
KER	5700-5800	49.87	17.24	100.96	.15	35	202												
CUT	5800-5900	.98	.18	.74	.20	18	76	.60	.07	.61	.50	.71	21						
KER	5800-5900	52.44	18.46	114.18	.14	35	218												
CUT	5900-6000	1.08	.24	1.14	.17	22	106	.55	.08	.52	.45	.71	15						
KER	5900-6000	26.57																	

JRCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

)CO AHTHA #1

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO) RO MEAN	STD. DEV.	RO MODE	RO RANGE LOW	HIGH	PTS	THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED PERCENT OIL PRONE ALG	EXI	GAS PRONE VIT	INER	GEOCHEM SAMPLE CODE
CUT	6000-6100	1.04	.12	.92	.12	12	88												
KER	6000-6100	49.33	15.29	95.70	.14	31	194												
CUT	6100-6200	1.15	.20	1.42	.12	17	123	.46	.08	.43	.31	.64	49						
KER	6100-6200	52.59	18.34	111.64	.14	35	212												
CUT	6200-6300	1.21	.37	1.28	.22	31	106												
KER	6200-6300	51.92	15.40	109.72	.12	30	211												
CUT	6300-6400	.93	.15	.76	.16	16	82												
KER	6300-6400	52.05	12.37	91.48	.12	24	176												
CUT	6400-6500	1.03	.21	1.24	.14	20	120	.45	.07	.48	.35	.64	5C						
KER	6400-6500	54.53	21.27	116.18	.15	39	213												
CUT	6500-6600	1.10	.15	.90	.14	14	82												
KER	6500-6600	51.15	14.28	102.53	.12	28	200												
CUT	6600-6700	.92	.17	.70	.20	18	76												
KER	6600-6700	52.30	18.10	99.94	.15	35	191												
CUT	6700-6800	.61	.13	.50	.21	21	82	.55	.12	.48	.39	.73	18						
KER	6700-6800	35.27	11.00	56.00	.16	31	159												
CUT	6800-6900	.58	.20	.66	.23	34	114	.55	.06	.51	.48	.67	24						
KER	6800-6900	50.59	18.31	80.14	.19	36	158												
CUT	6900-7000	.40						.52	.07	.46	.45	.69	25						
KER	6900-7000	47.30	16.82	83.92	.17	36	177												
CUT	7000-7100	.45						?.62	.07	.58	.53	.68	4						
KER	7000-7100	53.43	14.18	91.94	.13	27	172												
CUT	7100-7200	.26						.56	.09	.48	.45	.77	31						
KER	7100-7200	22.32																	
CUT	7200-7300	.16						?.38	.02	.36	.36	.39	2						
KER	7200-7300	24.75																	
CUT	7300-7400	.10																	
KER	7300-7400	52.88	16.06	42.42	.27	30	80												
CUT	7400-7500	.06						?.51	.03	.52	.46	.54	4						
KER	7400-7500	15.06																	
CUT	7500-7600	.15																	
CUT	7600-7700	.14																	
CUT	7700-7800	.13																	
CUT	7800-7885	.08																	
CUT	7900-7928	.06																	

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E ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

08/03/95

[redacted]

CREEK #1

MOOSE CREEK #1

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO) RO MEAN	RO STD. DEV.	RO MODE	RO RANGE LOW	RO RANGE HIGH	RO RANGE PTS	THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED OIL PRONE ALG	NORMALIZED OIL PRONE EXI	PERCENT GAS PRONE VIT	PERCENT GAS PRONE INER	GEOCHEM SAMPLE CODE
CUT	1980-2130	.84	.32	.87	.27	38	104												[redacted]
KER	1980-2130	51.19	28.07	73.35	.28	55	143												
CUT	2130-2280	.46						.42	.03	.41	.35	.49	24						
CUT	2280-2430	.91	.39	1.06	.27	43	116												
KER	2280-2430	47.58	32.43	65.26	.33	68	137												
CUT	2430-2580	.73	.25	.70	.26	34	96												
CUT	2580-2730	.73	.23	.66	.26	32	90												
KER	2580-2730	21.78	11.69	33.30	.26	54	153												
CUT	2730-2880	.59	.19	.64	.23	32	108	.45	.03	.43	.40	.51	22						
CUT	2880-3030	.68	.20	.58	.26	29	85												
KER	2880-3030	33.91	13.63	50.04	.21	40	148												
CUT	3030-3180	.65	.20	.46	.30	31	71												
CUT	3180-3300	.60	.19	.40	.32	32	67												
KER	3180-3300	45.84	22.85	80.42	.22	50	175												
CUT	3400-3550	.82	.15	.62	.19	18	76	.46	.04	.43	.41	.52	23						
KER	3400-3550	53.14	16.29	68.30	.19	31	129												
CUT	3550-3700	.94	.17	.68	.20	18	72												
KER	3550-3700	51.23	28.69	93.44	.23	56	182												
CUT	3730-3790	.45																	
KER	3730-3790	52.48	21.13	87.30	.19	40	166												
CUT	3820-3970	.51	.14	.34	.29	27	67												
KER	3820-3970	56.58	24.74	93.20	.21	44	165												
CUT	3970-4120	.58	.07	.28	.20	12	48	?.56	.04	.59	.50	.61	14						
KER	3970-4120	52.68	22.54	91.84	.20	43	174												
CUT	4120-4270	1.27	.14	1.00	.12	11	79												
KER	4120-4270	56.79	14.22	75.24	.16	25	132												
CUT	4300-4450	.57	.13	.40	.25	23	70												
KER	4300-4450	60.34	31.48	107.10	.23	52	177												
CUT	4450-4600	.46																	
KER	4450-4600	47.21	16.97	67.78	.20	36	144												
CUT	4600-4750	.40						.51	.04	.50	.44	.60	42						
KER	4600-4750	58.57	35.17	98.61	.26	60	168												
CUT	4750-4900	.67	.18	.50	.26	27	75												
KER	4750-4900	55.35	27.97	66.66	.30	51	120												
CUT	4900-5050	.92	.20	.44	.31	22	48												
KER	4900-5050	52.62	31.57	76.04	.29	60	145												
CUT	5050-5170	.62	.35	.68	.34	56	110												
KER	5050-5170	45.39	40.36	67.20	.38	89	148												
CUT	5170-5270	.94	.43	1.10	.28	46	117												
KER	5170-5270	37.37	26.04	46.70	.36	70	125												
CUT	5270-5370	1.27	.58	1.34	.30	46	106	?.50	.03	.50	.45	.54	5						
KER	5270-5370	40.99	36.07	63.60	.36	88	155												
CUT	5370-5470	.87	.35	.96	.27	40	110												
KER	5370-5470	7.46																	
CUT	5470-5570	.79	.23	.56	.29	29	71												

RCE ROCK GEOCHEMICAL AND VISUAL KEROGEN DATA

08/03/95 [redacted]

SE CREEK #1

MOOSE CREEK #1

SPL TYP	SAMPLE DEPTH FEET	TOTAL ORGANC CARBON (TOC)	S1 PEAK (TEH)	S2 PEAK	PRODUC TION INDEX (PI)	THERMAL EXTRAC- TION INDEX (TEI)	HYDRO GEN INDEX (HI)	VITRINITE REFLECTANCE (RO) RO MEAN	STD. DEV.	RO MODE	RO RANGE LOW	RO RANGE HIGH	PTS	THERMAL ALTERA- TION INDEX (TAI)	NORMALIZED PERCENT OIL PRONE ALG	OIL PRONE EXI	GAS PRONE VIT	GAS PRONE INER	GEOCHEM SAMPLE CODE
KER	5470-5570	44.87	27.86	50.80	.35	62	113												
CUT	5580-5680	.81	.42	.95	.31	52	117												
KER	5580-5680	42.91	31.69	66.40	.32	74	155												
KER	5680-5780	47.37	33.75	83.06	.29	71	175												
CUT	5780-5880	1.78	.58	2.86	.17	33	161												
CUT	5780-5880	1.26	.38	1.72	.18	30	137	.53	.03	.50	.48	.59	11						
KER	5780-5880	55.75	52.13	128.46	.29	94	230												
CUT	5880-5980	.90	.33	1.00	.25	37	111												
KER	5880-5980	45.13	37.46	82.78	.31	83	183												
CUT	5980-6080	2.60	.69	2.54	.21	27	98												
KER	5980-6080	44.00	15.87	56.18	.22	36	128												
CUT	6080-6180	.60	.43	.54	.44	72	90												
KER	6080-6180	48.78	12.20	56.96	.18	25	117												
CUT	6180-6280	.86	.55	1.31	.30	64	152												
KER	6180-6280	26.38	18.26	46.46	.28	69	176												
CUT	6320-6420	.84	.95	1.00	.49	113	119												
KER	6320-6420	26.99	25.18	40.28	.38	93	149												
CUT	6420-6520	.60	1.19	1.74	.41	198	290												
KER	6420-6520	32.77	21.79	53.26	.29	66	163												
CUT	6520-6620	1.17	1.02	1.22	.46	87	104												
KER	6520-6620	35.86	33.08	52.34	.39	92	146												
CUT	6630-6730	1.16	1.36	1.12	.55	117	97												
KER	6630-6730	30.92	29.11	46.38	.39	94	150												
CUT	6730-6820	.83	1.06	.64	.62	128	77												
KER	6730-6820	39.01	25.27	46.68	.35	65	120												
CUT	6820-6920	.80	.86	.74	.54	107	92												
KER	6820-6920	39.46	21.02	50.86	.29	53	129												
CUT	6920-7020	.99	1.19	.84	.59	120	85												
KER	6920-7020	39.67	42.98	46.36	.48	108	117												
CUT	7020-7120	.86	.92	.84	.52	107	98												
KER	7020-7120	40.34	21.85	50.44	.30	54	125												
CUT	7220-7320	.82	.60	.74	.45	73	90												
KER	7220-7320	47.26	18.40	61.48	.23	39	130												
CUT	7320-7420	1.48	.67	1.84	.27	45	124												
KER	7320-7420	49.50	17.04	56.62	.23	34	114												
CUT	7420-7520	1.56	.45	.82	.35	29	53	?.62	.04	.65	.56	.67	6						
KER	7420-7520	40.13	26.49	60.58	.30	66	151												
CUT	7520-7620	1.53	.65	1.76	.27	42	115												
KER	7520-7620	47.04	29.48	59.42	.33	63	126												
CUT	7620-7720	.86	.55	.96	.36	64	112												
KER	7620-7720	36.97	29.11	49.76	.37	79	135												
CUT	7720-7860	1.65	.63	1.60	.28	38	97	??.31	.03	.32	.25	.37	25						
KER	7720-7860	37.87	22.39	47.60	.32	59	126												